



New advanced functions and features for the IBM System Storage DS3500

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At a glance

IBM® DS3500 introduces new Controller Firmware (CFW) 7.84, and adds more powerful premium features and simplified premium feature ordering.

Overview

IBM System Storage® combines major premium features to simplify ordering of DS3500 systems. Some premium features are now included in the base CFW for no additional charge, and other premium functions are now included in separate premium feature bundle options.

CFW version 7.84 now includes additional functions and features:

- Partitions, 128
- FlashCopy® , 32
- VolumeCopy, 256 (IBM recommends that VolumeCopy be used with FlashCopy)
- Full Disk Encryption

Additional premium feature options include:

- **Disaster Recovery Option for DS3500** offers 16 Enhanced Remote Mirrors (synchronous over Fibre Channel, including FC over Ethernet) and 32 Global Mirrors (asynchronous over Fibre Channel and IP mirroring over iSCSI)
- **Backup and Restore Option for DS3500** offers up to 512 point in time instances of Enhanced FlashCopy
- **Performance Read Cache for DS3500** enables the utilization of solid state disks (SSDs) accelerating reads from the storage, helping to increase performance of the disk system
- **Super Key for DS3500** enables all the functionality in the Disaster Recovery Option, the Backup and Restore Option, and the Performance Read Cache

All other premium feature keys remain available and functional with CFW version 7.84. Customers that upgrade to CFW version 7.84 will find that the keys that have already been purchased and activated still work as the functions worked before the firmware upgrade. Also, upgrading with the keys that were previously announced will still continue to unlock in the latest CFW version 7.84 the functionality that was delivered in earlier versions of CFW.

For example, a customer may have already purchased some earlier FlashCopy instances, and if it would be more efficient to continue with those features, then those options are available and still work under the new CFW. Other features, such

as the Turbo Performance Option and the 96 to 192 Drive Enclosure Expansion keys, continue to be available for the new code under current terms and conditions.

The new Solaris Host Kit for DS3500 provides entitlement and support for servers using DS3500 Disk Systems and hosting Solaris operating systems.

Key prerequisites

DS3512/DS3524 1746

Disaster Recovery Option for DS3500	3951	00w1454	CFW 7.84, or later
Back Up & Restore Option for DS3500	3952	00w1455	CFW 7.84, or later
Performance Read Cache for DS3500	3953	00w1456	CFW 7.84, or later
Super Key for DS3500	3970	00w1462	CFW 7.84, or later
Solaris Host Kit for DS3500	4705	00w1463	CFW 7.83, or later

Planned availability date

December 7, 2012

Product number

Description	Machine type	Model number	Feature number	SEO number
Disaster Recovery Option for DS3500	1746	C2A,C4A,C4T	3951	00w1454
Back Up & Restore Option for DS3500	1746	C2A,C4A,C4T	3952	00w1455
Performance Read Cache for DS3500	1746	C2A,C4A,C4T	3953	00w1456
Super Key for DS3500	1746	C2A,C4A,C4T	3970	00w1462
Solaris Host Kit for DS3500	1746	C2A,C4A,C4T	4705	00w1463

Publications

The following publications are shipped with the product:

Title	Order number
Shipped in hard copy: System Storage DS3500 and EXP3500 Rack Installation and Quick Start Guide	81Y1157 (Part number)
Shipped on Host Kit DVD: IBM System Storage DS3500 and EXP3500 Installation, User's, and Maintenance Guide	GA32-0952
IBM System Storage DS3000, DS4000®, and DS5000 Command Line Interface and Script Commands Programming Guide	GA32-0961

IBM System Storage DS® Storage
Manager Version 10.8
Installation and Host Support
Guide GA32-2221

IBM System Storage DS Storage
Manager Version 10 Copy
Services User's Guide GA32-0964

On the web:
All of the above publications.

All of the above publications are available on the IBM support website:

<http://www.ibm.com/storage/support/>

Publications and product documentation are available at the IBM System Storage Support site

<http://www.ibm.com/systems/support/storage/>

Services

Global Technology Services

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These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

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For details on education offerings related to specific products, visit

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Select your country, and then select the product as the category.

Technical information

Specified operating environment

Hardware requirements

DS3512/DS3524 1746 (Base - Snowmass)	FC	P/N	Prerequisites
Disaster Recovery Option for DS3500	3951	00w1454	CFW 7.84, or later
Back Up & Restore Option for DS3500	3952	00w1455	CFW 7.84, or later
Performance Read Cache for DS3500	3953	00w1456	CFW 7.84, or later
Super Key for DS3500	3970	00w1462	CFW 7.84, or later

Planning information

You are responsible for downloading or obtaining from IBM , and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

No cables required.

Direct customer support

Direct customer support for DS3500 Disk Systems is provided by IBM Operational Support Services--Support Line. This fee service provides voice and electronic access into the IBM support organization. IBM Operational Support Services--Support Line helps answer questions pertaining to product and feature usage ("how to"), configuration, and product compatibility for eligible products. For a list of the products supported via Support Line, visit

<http://www.ibm.com/services/sl/products/>

For more information on services, call 800-IBM-4YOU (426-4968).

Security, auditability, and control

This product uses the security and auditability features of host hardware.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

IBM Electronic Services

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent

for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Terms and conditions

MES discount applicable

Equal to the volume commitment discount

Field installable feature

Yes

Warranty period

Three years

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

Customer setup

Yes

Machine code

Same license terms and conditions as base machine

Pricing

Feature number	Description
3951	Disaster Recovery Option for DS3500
3952	Back Up & Restore Option for DS3500
3953	Performance Read Cache for DS3500
3970	Super Key for DS3500
4705	Solaris Host Kit for DS3500
SEO number	Description
00w1454	Disaster Recovery Option for DS3500
00w1455	Back Up & Restore Option for DS3500
00w1456	Performance Read Cache for DS3500
00w1462	Super Key for DS3500
00w1463	Solaris Host Kit for DS3500

Description	Machine type	Model number	Feature number	SEO number	Install type*
Disaster Recovery Option for DS3500	1746	C2A,C4A, C4T	3951	00w1454	Both
Back Up & Restore Option for DS3500	1746	C2A,C4A, C4T	3952	00w1455	Both
Performance Read Cache for DS3500	1746	C2A,C4A, C4T	3953	00w1456	Both
Super Key for DS3500	1746	C2A,C4A, C4T	3970	00w1462	Both
Solaris Host Kit for DS3500	1746	C2A,C4A, C4T	4705	00w1463	Both

* Install type:

- "Plant" denotes plant installation only.
- "Field" denotes field installation only.
- "Both" denotes both plant and field installation.

Pricing terms

Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-112-224-LIST_PRICES_2012_11_27.PDF](#)

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